

# SAFETY DATA SHEET

#### 1. Identification

Product identifier	0165TS38 PART B
Other means of identification	
Synonyms	Goodrich Kit Components: 74-451-159, 74-451-161 (Contained in Goodrich Kits: 74-451-Q, 74-451-Q-1, 74-451-Q-2)
Recommended use	Coating. Sealer.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier	/Distributor information
Supplier	
Company name	Goodrich Corporation
Address	UTC Aerospace Systems Sensors and Integrated Systems (Formerly De-icing and Specialty Systems) 1555 Corporate Woods Parkway
	Uniontown, Ohio 44685
	US
E-mail	Terry.Sluss@utas.utc.com
Contact name	EH&S Manager
Telephone number	(330)374-4011
Emergency telephone number	(800)424-9300

## 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity, repeated exposure	Category 2 (Kidney, Liver)
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
Label elements		



Signal word Hazard statement Warning

Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment.
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

## 3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Aluminium	7429-90-5	20-50
Diethylmethylbenzenediamine	68479-98-1	<25
Dioctyl adipate	103-23-1	<15
2-(2h-benzotriazol-2-yl)-4,6-dit ertpentylphenol	25973-55-1	<5
Bis(1,2,2,6,6-pentamethyl-4-pi peridyl) sebacate	41556-26-7	<5
Stoddard solvent	8052-41-3	<1

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. Edema. Jaundice. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media	Powder. Dry sand.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Carbon dioxide (CO2).
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	No unusual fire or explosion hazards noted.	
6. Accidental release meas	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials for	This product is miscible in water.	
containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.	
7. Handling and storage		
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide adequate ventilation. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.	
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).	

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Aluminium (CAS 7429-90-5)	PEL	5 mg/m3	Respirable dust.
. , ,		15 mg/m3	Total dust.
Stoddard solvent (CAS 8052-41-3)	PEL	2900 mg/m3	
,		500 ppm	
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm	
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	Form
Aluminium (CAS 7429-90-5)	TWA	5 mg/m3	Welding fume or pyrophoric powder.
		5 mg/m3	Respirable.
		10 mg/m3	Total
Stoddard solvent (CAS 8052-41-3)	Ceiling	1800 mg/m3	
	TWA	350 mg/m3	
ogical limit values	No biological exposure limits noted f	or the ingredient(s)	

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.
Individual protection measures	, such as personal protective equipment
Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear protective gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Wear protective gloves.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid. Paste.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 100 °F (> 37.78 °C)
Flash point	> 200.0 °F (> 93.3 °C)
Evaporation rate	Negligible.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Negligible.
Vapor density	Negligible.
Relative density	1.33 - 1.57
Solubility(ies)	
Solubility (water)	Slight.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC (Weight %)	Negligible.

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

information on likely routes of ex	•		
Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation.		
Skin contact	May cause an allergic skin reaction.		
Eye contact	Causes serious eye irritation.		
Ingestion	Expected to be a low ingestion	hazard.	
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. Edema. Jaundice.		
Information on toxicological effe	cts		
Acute toxicity	May cause an allergic skin read	ction.	
Components	Species	Test Results	
Bis(1,2,2,6,6-pentamethyl-4-piperic	lyl) sebacate (CAS 41556-26-7)		
Acute			
Oral			
LD50	Rat	2369 - 4247 mg/kg	
* Estimates for product may be	e based on additional componen	t data not shown.	
Skin corrosion/irritation	Prolonged skin contact may ca		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization			
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing cancer.		
IARC Monographs. Overall E	valuation of Carcinogenicity		
Dioctyl adipate (CAS 103-23-1) Stoddard solvent (CAS 8052-41-3) NTP Report on Carcinogens		<ul><li>3 Not classifiable as to carcinogenicity to humans.</li><li>3 Not classifiable as to carcinogenicity to humans.</li></ul>	
Not listed.			
Not listed.	d Substances (29 CFR 1910.10	01-1050)	
Reproductive toxicity	Suspected of damaging fertility	or the unborn child	
Specific target organ toxicity -	Suspected of damaging fertility or the unborn child. Not classified.		
single exposure			
Specific target organ toxicity - repeated exposure	May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.		

# **12. Ecological information**

Ecotoxicity	Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.			
Components		Species	Test Results	
Bis(1,2,2,6,6-pentamethyl-4-	piperidyl) set	pacate (CAS 41556-26-7)		
Aquatic				
Fish	LC50	Bluegill (Lepomis macrochirus)	1 mg/l, 96 Hours	
* Estimates for product may I	be based on	additional component data not shown.		
Persistence and degradability	No data is	available on the degradability of this proc	duct.	
Bioaccumulative potential				
Partition coefficient n-octal Stoddard solvent (CAS 8052		l <b>og Kow)</b> 3.16 - 7.15		
Mobility in soil	No data available.			
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
13. Disposal consideratio	ns			
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.			
Local disposal regulations	Dispose in accordance with all applicable regulations.			
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).			
Contaminated packaging			e, follow label warnings even after container oproved waste handling site for recycling or	

# 14. Transport information

DOT		
UN number	UN3082	
UN proper shipping name	Environmentally hazardous substances, liquid, n.o.s. (Diethyltoluene diamine	
Transport hazard class(es)		
Class	9	
Subsidiary risk	-	
Label(s)	9	
Packing group	III	
Environmental hazards		
Marine pollutant	Yes	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	
Special provisions	8, 146, 335, IB3, T4, TP1, TP29	
Packaging exceptions	155	
Packaging non bulk	203	
Packaging bulk	241	
ΙΑΤΑ		
UN number	UN3082	
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Diethyltoluene diamine)	
Transport hazard class(es)		
Class	9	
Subsidiary risk	-	
Packing group	III	
Environmental hazards	Yes	
ERG Code	9L	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	

IMDG					
UN number UN proper shipping name Transport hazard class(es)	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Class	9				
Subsidiary risk	-				
Packing group	III				
Environmental hazards					
Marine pollutant	Yes				
EmS	F-A, S-F				
Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	r Read safety instructions, SDS and emergency procedures before handling. Not established.				
15. Regulatory information	1				
US federal regulations		Chemical" as define	d by the OSHA Hazard Communication		
TSCA Section 12(b) Export N	lotification (40 CFR 707, Subp	it. D)			
Diethylmethylbenzenediamine (CAS 68479-98-1) 1.0 % One-Time Export Notification only. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)					
Not listed. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.					
Superfund Amendments and Rea	authorization Act of 1986 (SAF	RA)			
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No				
SARA 302 Extremely hazard Not listed.	ous substance				
SARA 311/312 Hazardous chemical	No				
SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.		
Aluminium	-	7429-90-5	20-50		
Other federal regulations					
-	112 Hazardous Air Pollutants	(HAPs) List			
Not regulated.					
	112(r) Accidental Release Pre	vention (40 CFR 6	8.130)		
Not regulated.		(			
Safe Drinking Water Act (SDWA)	Not regulated.				
US state regulations					
US. Massachusetts RTK - Substance List					
Aluminium (CAS 7429-90-5) Dioctyl adipate (CAS 103-23-1) Stoddard solvent (CAS 8052-41-3) US. New Jersey Worker and Community Right-to-Know Act					
Aluminium (CAS 7429-90-5) Dioctyl adipate (CAS 103-23-1) Stoddard solvent (CAS 8052-41-3)					
US. Pennsylvania Worker and Community Right-to-Know Law					
Aluminium (CAS 7429-90-5) Dioctyl adipate (CAS 103-23-1)					

Stoddard solvent (CAS 8052-41-3)

#### **US. Rhode Island RTK**

Aluminium (CAS 7429-90-5)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	03-September-2015
Revision date	-
Version #	01
HMIS® ratings	Health: 2* Flammability: 0 Physical hazard: 0

**NFPA** ratings



Disclaimer

Goodrich Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.